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- (71) Applicant (for all designated States except US): GENE-PROT, INC. [CH/CH]; 2 rue Pré de la Fontaine, Case Postale 125, CH-1217 Meyrin 2 (CH).
- (72) Inventors; and
- Inventors/Applicants (for US only): BOUGUELERET, Lydie [FR/CH]; GeneProt, Inc., 2, Pré de la Fontaine, CH-1217 Meyrin (CH). NIKNEJAD, Anne [CH/CH]; GeneProt, Inc., 2, Pré de la Fontaine, CH-1217 Meyrin (CH).
- Agent: VOSSIUS & PARTNER; Siebertstrasse 4, 81675 München (DE).

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SECRETED PEPTIDES

(57) Abstract: The invention provides secreted active peptides, methods and compositions for making such peptides, and methods of using the peptides in detection assays, for disease diagnosis, for disease treatment and for drug development.



International Application No ET/EP 03/07069

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A. CLASSI IPC 7	FICATION OF SUBJECT MATTER C12N15/00					
According to International Patent Classification (IPC) or to both national classification and IPC						
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Minimum do	cumentation searched (classification system followed by classification C12N	on symbols)				
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic d	ata base consulted during the international search (name of data bas	e and, where practical, search terms used)				
	ternal, BIOSIS, WPI Data, EMBASE					
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT	<u> </u>	D.B			
Category °	Citation of document, with indication, where appropriate, of the rele	avant passages	. Relevant to claim No			
х	MOREN ANITA ET AL: "Identificati	ion and	1-10			
· ·	characterization of LTBP-2, a nov	vel latent				
-	transforming growth factor-beta-b	oinding				
	protein" JOURNAL OF BIOLOGICAL CHEMISTRY,		,			
	vol. 269, no. 51, 1994, pages 324	169-32478,				
,	XP002264355.	-	•			
	ISSN: 0021-9258		•			
	the whole document		•			
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	ner documents are listed in the continuation of box C.	Patent family members are listed i				
•		"T" later document published after the inter or priority date and not in conflict with	ine application but			
consid	"A" document defining the general state of the art which is not clied to understand the principle or theory underlying the considered to be of particular relevance					
"E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to						
"L" document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone which is cited to establish the publication date of another "V" document of particular relevance; the claimed invention						
citation or other special reason (as specialed)  cannot be considered to involve an inventive step when the						
other means ments, such combination being obvious to a person skilled						
"P" document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent fa			amily			
Date of the actual completion of the international search		Date of mailing of the international search report				
9 December 2003		2 3. 02 2004				
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	tion) DOCUMENTS CONSIDERED TO BE RELEVANT		Tolonoma Art of a for Aff
Category *	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
A	GIBSON MARK A ET AL: "Bovine latent transforming growth factor beta-1-binding protein 2: Molecular cloning, identification of tissue isoforms, and immunolocalization to elastin-associated microfibrils" MOLECULAR AND CELLULAR BIOLOGY, vol. 15, no. 12, 1995, pages 6932-6942, XP002264356 ISSN: 0270-7306 the whole document		1-10
X	BASHIR MUHAMMAD M ET AL: "Analysis of the human gene encoding latent transforming growth factor-beta-binding protein-2" INTERNATIONAL JOURNAL OF BIOCHEMISTRY AND CELL BIOLOGY, vol. 28, no. 5, 1996, pages 531-542, XP002264357 ISSN: 1357-2725 cited in the application the whole document		1-10
A	WO 95/22611 A (UNIV MICHIGAN) 24 August 1995 (1995-08-24) abstract figure 27		1-10
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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)	·
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	İ
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:  Although claims 8 and 9 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.	
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:	
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)	
This International Searching Authority found multiple inventions in this International application, as follows:	
see additional sheet	
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.	
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:	
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
1-10 (partially)	
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.	
Form PCT/ISA/210 (continuation of first sheet (1)) (July 1998) page 1 of 2	

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-10 (partially)

An isolated polypeptide having an aminoacid sequence as set forth in Seq.Id.No.3 of the sequence listing, methods of use and compositions thereof.

2. claims: 1-10 (partially)

An isolated polypeptide having an aminoacid sequence as set forth in Seq.Id.No.4 of the sequence listing, methods of use and compositions thereof.

3. claims: 1-10 (partially)

An isolated polypeptide having an aminoacid sequence as set forth in Seq.Id.No.5 of the sequence listing, methods of use and compositions thereof.



rnational	cation No
PCT/EP	03/07069

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
WO 9522611 A	24-08-1995	US	5763416 A	. 09-06-1998
NO JOEZUIT I	2, 00 200	US	5942496 A	24-08-1999
ľ	•	AT	186327 T	. 15-11 <b>-1999</b>
_		ΑÜ	698906 B2	12-11-1998
:		AU	1968695 A	04-09-1995
		CA	2183542 A1	24-08-1995
1		DE	69513149 D1	09-12-1999
:		DE	69513149 T2	21-06-2000
,		DK	741785 T3	10-04-2000
·		ΕP	0741785 A1	13-11-1996
	•	ES.	2139889 T3	16-02-2000
<b>.</b> :		JP	3054634 B2	19-06-2000
·		JP	9509825 T	07-10-1997
•		wo	9522611 A2	24-08-1995
		ÜS	2002193338 A1	19-12-2002
		ÜŠ	6074840 A	13-06-2000
		US	5962427 A	05-10-1999